

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2012 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

<b>RD2107</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 2107</b>								
<b>Mossdale Island</b>	<b>A</b>	<b>4.21</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.02		0.02	0.48%	0.01			
Encroachments	0.01		0.01	0.24%				
Animal Control	0.01		0.01	0.24%				
Slope Stability	0.01		0.01	0.24%				
<i>LMA Totals:</i>	0.05	0.00	0.05	1.19%	0.01	0.00	0.00	0.00
<b>Unit No. 01 San Joaquin River LB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2107</b>	<b>A</b>	<b>2.37</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.42%	0.01			
Slope Stability	0.01		0.01	0.42%				
<i>Unit Totals:</i>	0.02	0.00	0.02	0.84%	0.01	0.00	0.00	0.00
<b>Unit No. 02 Paradise Cut RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2107</b>	<b>A</b>	<b>1.84</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.54%				
Encroachments	0.01		0.01	0.54%				
Animal Control	0.01		0.01	0.54%				
<i>Unit Totals:</i>	0.03	0.00	0.03	1.63%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2107 Mossdale Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2107 Mossdale Island**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	2.37
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/26/2012 - 03/26/2012		10/25/2012 - 10/25/2012	
DWR Inspector	Jim Eto		Maksim Khashchuk	
Accompanied By	Robert Brown		Robert Brown	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2107 Mossdale Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River						Left	2.37	10/25/2012 10/25/2012	Maksim Khashchuk
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
1			Earthen Levee	Emergency Supplies & Equipment	CR A Ma		°	°	58 Y
DWR ID: DWR_RD2107_01_s_2012_58									
2			Earthen Levee	Operations & Maintenance Manuals	CR A Ma		°	°	59 Y
DWR ID: DWR_RD2107_01_s_2012_59									
3			Earthen Levee	Flood Preparedness & Training	CR A Ma		°	°	60 Y
DWR ID: DWR_RD2107_01_s_2012_60									
4	0.03	0.03	Earthen Levee	Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.786993 ° -121.308694 °	37.786993 ° -121.308694 °	1 Y
DWR ID: DWR_RD2107_01_s_2012_1									
5	0.25	0.25	Earthen Levee	Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.784316 ° -121.306498 °	37.784316 ° -121.306498 °	2 Y
DWR ID: DWR_RD2107_01_s_2012_2									
6	0.37	0.37	Earthen Levee	Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.783233 ° -121.305125 °	37.783233 ° -121.305125 °	4 Y
DWR ID: DWR_RD2107_01_s_2012_4									
7	0.37	0.37	Earthen Levee	Slope Stability	WS M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.783402 ° -121.304937 °	37.783402 ° -121.304937 °	3 Y
DWR ID: DWR_RD2107_01_f_2012_3									
8	0.42	0.42	Earthen Levee	Vegetation	WS M Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Large elderberry on water side slope.	37.782737 ° -121.304426 °	37.782737 ° -121.304426 °	54 Y
DWR ID: DWR_RD2107_01_s_2012_54									
9	0.68	0.68	Earthen Levee	Encroachments	CRA/W Ma	PI : Pipe Inspector Comments: Irrigation intake pump. Steel pipe runs through base of levee.	37.779550 ° -121.301987 °	37.779550 ° -121.301987 °	6 Y
DWR ID: DWR_RD2107_01_s_2012_6									
10	0.68	0.68	Earthen Levee	Erosion / Bank Caving	WS C Ma	E1 : Note and monitor erosion site. Inspector Comments: Erosion occurring around pipe on water side.	37.779494 ° -121.301952 °	37.779494 ° -121.301952 °	55 Y
DWR ID: DWR_RD2107_01_s_2012_55									
11	1.24	1.24	Earthen Levee	Vegetation	LS M En	V6 : Landscaping Inspector Comments: Landscaping and fence present on levee slope.	37.774123 ° -121.307189 °	37.774123 ° -121.307189 °	17 Y
DWR ID: DWR_RD2107_01_s_2012_17									
12	1.49	1.49	Earthen Levee	Encroachments	CRA/W Ma	PI : Pipe Inspector Comments: Irrigation intake pump. Unable to locate closure valve/gate.	37.771636 ° -121.304773 °	37.771636 ° -121.304773 °	9 Y
DWR ID: DWR_RD2107_01_s_2012_9									

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.37	10/25/2012 10/25/2012	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
13	2.21	2.21	Earthen Levee	Encroachments	CR A/W	PI : Pipe Ma	Inspector Comments: Irrigation intake pipe through levee freeboard.	37.762868 ° -121.309708 °	37.762868 ° -121.309708 °	11

DWR ID: DWR\_RD2107\_01\_s\_2012\_11

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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.37	10/25/2012 10/25/2012	Maksim Khashchuk

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	Water Side
Category	Earthen Levee
Item	Emergency Supplies & Equipment
View of flood fight supplies stored in weather proof container.	
mkhashch_f_20121105_719.JPG	



Levee Mile Report Line	4
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Photo of waterside slope. Stumps present from prior tree removal for access and visibility.	
mkhashch_f_20121105_718.JPG	



Levee Mile Report Line	5
Start Levee Mile	0.25
End Levee Mile	0.25
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Tree stumps present on slope. They were left from prior vegetation removal for access and visibility.	
mkhashch_f_20121105_720.JPG	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.37	10/25/2012 10/25/2012	Maksim Khashchuk

Levee Mile Report Line	6
Start Levee Mile	0.37
End Levee Mile	0.37
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Tree stumps and trunks on levee slope. Vehicle traffic on levee slope is an ongoing problem at this location due to the abandoned trailer park, access should be restricted.

mkhashch\_f\_20120927\_672.jpg



Levee Mile Report Line	7
Start Levee Mile	0.37
End Levee Mile	0.37
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

View of vehicle ruts in waterside slope around the gate on levee crown.

mkhashch\_f\_20121105\_721.JPG



Levee Mile Report Line	8
Start Levee Mile	0.42
End Levee Mile	0.42
Location	Water Side
Category	Earthen Levee
Item	Vegetation

03/26/2012 Large elderberry located on water side slope.

mkhashch\_f\_20120927\_676.jpg



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Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.37	10/25/2012 10/25/2012	Maksim Khashchuk

Levee Mile Report Line	9
Start Levee Mile	0.68
End Levee Mile	0.68
Location	Crown
Category	Earthen Levee
Item	Encroachments

Irrigation intake pipe runs through the base of the levee. Stand pipes on waterside and landside. A butterfly valve is located near waterside slope.

mkhashch\_f\_20121105\_722.JPG



Levee Mile Report Line	11
Start Levee Mile	1.24
End Levee Mile	1.24
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Fall 2009 photo of landscape planting on landside levee slope and a 3-ft yard fence at the levee toe.

mkhashch\_f\_20120927\_675.jpg



Levee Mile Report Line	12
Start Levee Mile	1.49
End Levee Mile	1.49
Location	Crown
Category	Earthen Levee
Item	Encroachments

Irrigation intake pipe through levee freeboard.

mkhashch\_f\_20120927\_674.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2107 Mossdale Island**

Waterway			Bank	Unit Miles
Unit No. 02 Paradise Cut			Right	1.84
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	03/26/2012 - 03/26/2012		10/25/2012 - 10/25/2012	
DWR Inspector	Jim Eto		Maksim Khashchuk	
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Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2107 Mossdale Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut						Right	1.84	10/25/2012 10/25/2012	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.50	0.50	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry bush on waterside.	37.764780 ° -121.316717 °	37.764780 ° -121.316717 °	4 Y
DWR ID: DWR_RD2107_02_s_2012_4										
2	0.55	0.55	Earthen Levee	Encroachments	CRA/W	PI : Pipe Ma	Inspector Comments: Drainage discharge pump and pipe through levee freeboard.	37.764831 ° -121.317446 °	37.764831 ° -121.317446 °	2 Y
DWR ID: DWR_RD2107_02_s_2012_2										
3	0.84	0.84	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.767792 ° -121.321220 °	37.767792 ° -121.321220 °	5 Y
DWR ID: DWR_RD2107_02_s_2012_5										
4	1.06	1.06	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.770322 ° -121.323122 °	37.770322 ° -121.323122 °	6 Y
DWR ID: DWR_RD2107_02_f_2012_6										
5	1.39	1.39	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	37.773085 ° -121.327990 °	37.773085 ° -121.327990 °	8 Y
DWR ID: DWR_RD2107_02_f_2012_8										
6	1.54	1.54	Earthen Levee	Encroachments	LS A/W	PI : Pipe Ma	Inspector Comments: Irrigation Pipe	37.774418 ° -121.330060 °	37.774418 ° -121.330060 °	9 Y
DWR ID: DWR_RD2107_02_f_2012_9										

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.84	10/25/2012 10/25/2012	Maksim Khashchuk

Levee Mile Report Line	1
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Elderberry located on water side slope.

mkhashch\_f\_20121105\_724.JPG



Levee Mile Report Line	2
Start Levee Mile	0.55
End Levee Mile	0.55
Location	Crown
Category	Earthen Levee
Item	Encroachments

Drainage discharge pump. Steel pipe penetrates levee freeboard. No flapgate on waterside. No closure device.

mkhashch\_f\_20120927\_678.jpg



Levee Mile Report Line	2
Start Levee Mile	0.55
End Levee Mile	0.55
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of siphon breaker causing some erosion on slope.

mkhashch\_f\_20121105\_725.JPG



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.84	10/25/2012 10/25/2012	Maksim Khashchuk

Levee Mile Report Line	3
Start Levee Mile	0.84
End Levee Mile	0.84
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Tree stumps on levee slope.

mkhashch\_f\_20120927\_680.jpg



Levee Mile Report Line	4
Start Levee Mile	1.06
End Levee Mile	1.06
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of large burrow on waterside slope.

mkhashch\_f\_20121105\_726.JPG



Levee Mile Report Line	5
Start Levee Mile	1.39
End Levee Mile	1.39
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of prunings at landside toe.

mkhashch\_f\_20121105\_727.JPG



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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.84	10/25/2012 10/25/2012	Maksim Khashchuk

Levee Mile Report Line	6
Start Levee Mile	1.54
End Levee Mile	1.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of irrigation pipe and canal.

mkhashch\_f\_20121105\_728.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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